

SERVICE MANUAL

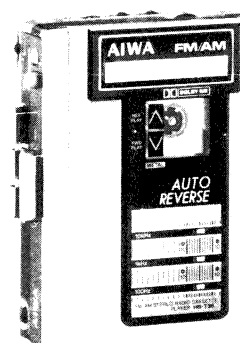
MODEL No. **HS-T06MK II,
T330**

- STEREO RADIO CASSETTE PLAYER
- TYPE. Y
- BASIC MECHANISM : TN-52



MODEL No. **HS-T36,
T360**

- STEREO RADIO CASSETTE PLAYER
- TYPE. Y
- BASIC MECHANISM : TN-52



SPECIFICATIONS

Frequency range: FM: 87.5 - 108 MHz
AM: 530 - 1,605 kHz
Track configuration: 4-track, 2-channel stereo
Frequency range: 40 to 12,500 Hz (NORMAL tape)
40 to 16,000 Hz (METAL tape)
Maximum output: 15 mW + 15 mW (EIAJ/32Ω)
Power source: Battery DC 3V R6P
(SUM-3, AA, LR-6) × 2
Domestic AC power
(using optional AC adapter)

Battery life:

- Using manganese batteries (R6P SUM-3, AA)
Approx. 3.5 hours (EIAJ, 1 mW output, playback mode)
- Using alkaline batteries (LR-6, AA)
Approx. 7 hours (EIAJ, 1 mW output, playback mode)

Maximum dimensions: 91.5(H) × 118.4(W) × 37.9(D) mm
Weight: 325 g (including batteries)

- Design and specifications are subject to change without notice.
- Noise reduction system manufactured under license from Dolby Laboratories Licensing Corporation.
- Dolby and the  symbol are trademarks of Dolby Laboratories Licensing Corporation.

As to the disassembl instructions, refer to the service manual of HS-G35MKII and HS-G36.

■ ACCESSORIES/PACKAGE LIST

PART NO. CHANGED TO	REF. NO.	PART NO.	ORDER	DESCRIPTION	COMMON MODEL	Q, TY
	1	★84-447-904-019		INSTRUCTION BOOKLET (T06MKⅡ, T36Y, Y1)	*	1
	2	★84-447-905-019		INSTRUCTION BOOKLET (T330, T360YU)	*	1
	3	★84-447-908-019		INSTRUCTION BOOKLET (T06MKⅡ, T36YZ)	*	1
	4	★87-048-124-019		HP-07 (Y1)		
	5	★87-048-127-019		HP-M12 (EXCEPT Y1)		
	6	★84-447-019-019		CLIP, BELT	*	1

ELECTRICAL MAIN PARTS LIST

Note When placing an order for service parts, always enter the parts code number up to the last numeral on the service parts ordering sheet.

REF.NO. PART NO. ORDER DESCRIPTION

--- IC ---

87-020-459-019 IC,BA1102F
87-020-460-019 IC,CX20111
87-020-447-019 IC,TA7373F
87-020-234-019 IC,TA7688F(S)
87-020-235-019 IC,TA7709F(S)

--- TRANSISTOR ---

89-502-113-019 FET,2SK211 O
87-026-213-019 TRANSISTOR,DTC114YK
89-112-134-019 TRANSISTOR,2SA1213Y
89-327-124-019 TRANSISTOR,2SC2712Y

--- MAIN CIRCUIT BOARD SECTION ---

PCB-A 84-400-601-019 MAIN CIRCUIT BOARD(T06MKD/T330)
PCB-A 84-447-601-019 MAIN CIRCUIT BOARD(T36/T360)
BPF1 *87-030-136-010 FILTER BPMB 8L
C1 *87-010-147-019 CAP,CHIP S 3P
C2 *87-010-315-019 CAP,CHIP S 27P CH
C3 *87-010-149-019 CAP,CHIP S 5P
C4 *87-010-091-019 CAP,CHIP 22P CH
C5 *87-010-315-019 CAP,CHIP S 27P CH
C6 *87-010-197-019 CAP,CHIP 0.01DM
C7 *87-010-197-019 CAP,CHIP 0.01DM
C8 *87-010-498-019 CAP,ELECT GAS 10-16
C9 *87-010-197-019 CAP,CHIP 0.01DM
C10 *87-010-194-019 CAP,CHIP 0.047
C11 *87-010-193-019 CAP,CHIP 0.033
C12 *87-010-502-019 CAP,ELECT GAS 100-4
C13 *87-010-498-019 CAP,ELECT GAS 10-16
C14 *87-010-495-019 CAP,ELECT GAS 2.2-50
C15 *87-010-495-019 CAP,ELECT GAS 2.2-50
C16 *87-010-197-019 CAP,CHIP 0.01DM
C17 *87-010-197-019 CAP,CHIP 0.01DM
C18 *87-010-495-019 CAP,ELECT GAS 2.2-50
C19 *87-010-495-019 CAP,ELECT GAS 2.2-50
C20 *87-010-495-019 CAP,ELECT GAS 2.2-50
C21 *87-010-189-019 CAP,CHIP S 8200P
C22 *87-010-189-019 CAP,CHIP S 8200P
C23 *87-010-194-019 CAP,CHIP 0.047
C24 *87-010-194-019 CAP,CHIP 0.047
C25 *87-010-196-019 CAP,CHIP 0.1
C26 *87-014-047-019 CAP, PP 390P
C27 *87-015-768-019 CAP,CHIP 220P
C28 *87-010-321-019 CAP,CHIP 82P CH
C101 *87-010-180-019 CAP,CHIP 1500P
C102 *87-010-180-019 CAP,CHIP 1500P
C103 *87-010-220-019 CAP,CHIP 0.018
C104 *87-010-220-019 CAP,CHIP 0.018
C105 *87-010-501-019 CAP,ELECT GAS 47-4
C106 *87-010-501-019 CAP,ELECT GAS 47-4
C107 *87-010-220-019 CAP,CHIP 0.018
C108 *87-010-220-019 CAP,CHIP 0.018
C109 *87-010-495-019 CAP,ELECT GAS 2.2-50
C110 *87-010-495-019 CAP,ELECT GAS 2.2-50
C111 *87-010-178-019 CAP,CHIP 1000P
C112 *87-010-178-019 CAP,CHIP 1000P
C113 *87-010-178-019 CAP,CHIP 1000P
C114 *87-010-178-019 CAP,CHIP 1000P
C115 *87-010-193-019 CAP,CHIP 0.033
C116 *87-010-193-019 CAP,CHIP 0.033
C117 *87-010-186-019 CAP,CHIP 4700P
C118 *87-010-186-019 CAP,CHIP 4700P

REF.NO. PART NO. ORDER DESCRIPTION

C119 *87-010-495-019 CAP,ELECT GAS 2.2-50
C120 *87-010-495-019 CAP,ELECT GAS 2.2-50
C121 *87-010-197-019 CAP,CHIP 0.01DM
C122 *87-010-197-019 CAP,CHIP 0.01DM
C123 *87-010-193-019 CAP,CHIP 0.033
C124 *87-010-193-019 CAP,CHIP 0.033
C125 *87-010-196-019 CAP,CHIP 0.1
C126 *87-010-196-019 CAP,CHIP 0.1
C127 *87-010-495-019 CAP,ELECT GAS 2.2-50
C128 *87-010-495-019 CAP,ELECT GAS 2.2-50
C129 *87-010-178-019 CAP,CHIP 1000P
C130 *87-010-178-019 CAP,CHIP 1000P
C131 *87-010-503-019 CAP,ELECT GAS 220-4
C132 *87-010-503-019 CAP,ELECT GAS 220-4
C133 *87-010-109-019 CAP,CHIP 0.22
C134 *87-010-109-019 CAP,CHIP 0.22
C135 *87-010-501-019 CAP,ELECT GAS 47-4
C136 *87-010-501-019 CAP,ELECT GAS 47-4
C137 *87-010-503-019 CAP,ELECT GAS 220-4
C138 *87-010-501-019 CAP,ELECT GAS 47-4
C139 *87-010-498-019 CAP,ELECT GAS 10-16
C140 *87-010-501-019 CAP,ELECT GAS 47-4
C141 *87-010-503-019 CAP,ELECT GAS 220-4
C142 *87-010-495-019 CAP,ELECT GAS 2.2-50
C143 *87-010-503-019 CAP,ELECT GAS 220-4
C144 *87-010-196-019 CAP,CHIP 0.1
C145 *87-010-321-019 CAP,CHIP 82P CH
C147 *87-015-738-019 CAP,TANTALUM 33-4
CF1 *84-400-602-019 FM IF KIT DISCRI(SFT 10.7MS2Z)
CF3 +++ FM IF KIT DISCRI(CDA 10.7MG1Z)
CF2 *87-008-284-019 FILTER PFB 468J
D1 87-020-339-019 DIODE,CHIP 1SS226
J1 87-049-549-019 JACK DC(DC 3V)
J2 87-049-585-019 JACK 3.5ST 2.5MM(PHONES)
L1 *87-005-264-019 COIL,CHIP 22UH
L2 *87-005-264-019 COIL,CHIP 22UH
L3 *87-003-134-019 COIL 1.5UH (S)
L4 *87-003-159-019 COIL 47UH
L5 *87-007-180-019 COIL LOADING 4T
L6 *87-006-089-019 COIL BAR ANT AM
L7 *87-007-130-019 COIL OSC AM
L8 *87-006-094-019 COIL OSC FM
L9 *87-006-090-019 COIL ANT FM
L10 *87-008-285-019 IFT AM
LED1 *87-027-636-019 LED TLR-226(OPE/BATT)
R139 *87-022-040-010 PTR XJ 1/8W 0.82/4300
S2 87-031-816-019 SLIDE SW (ST/MONO,METAL/NORMAL)
S3 87-031-816-019 SLIDE SW (DOLBY NR ON/OFF,FM/AM)
S5 87-031-986-010 SLIDE SW (POWER OFF/TAPE,RADIO)
SFR1 *87-021-883-010 SFR 500B
SFR2 *87-021-883-010 SFR 500B
SFR3 *87-021-677-010 SFR 10KB
SFR4 *87-021-932-010 SFR 10KB
TC1 *87-011-174-019 PVC
TC2 +++ PVC
TC3 +++ PVC
TC4 +++ PVC
VC1 +++ PVC
VC2 +++ PVC
VC3 +++ PVC
VC4 +++ PVC

REF.NO. PART NO. ORDER DESCRIPTION

TH1 *87-026-222-010 THERMISTOR HT-50K
VR1 81-198-615-019 VOLUME 10KA(VOL)

--- SWITCH CIRCUIT BOARD SECTION ---

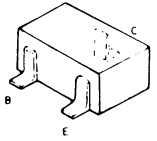
PH S6-205-070-500 HEAD ASSY(W/PCB-B)
S1 S6-403-020-400 SLIDE SW(DIRECTION)

--- G.EQ CIRCUIT BOARD SECTION ---
(HS-T36/T360)

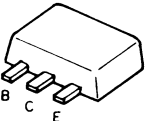
84-447-602-019 G-EQ ASSY(W/PCB-C)
84-447-603-019 RIBBON WIRE 6P

--- MISCELLANEOUS ---

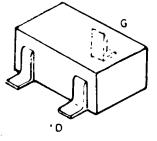
M1 S6-005-070-120 MOTOR
S4 S6-417-010-900 LEAF SW(PLAY)



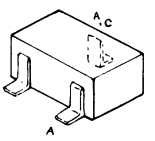
2SC2712
DTC114



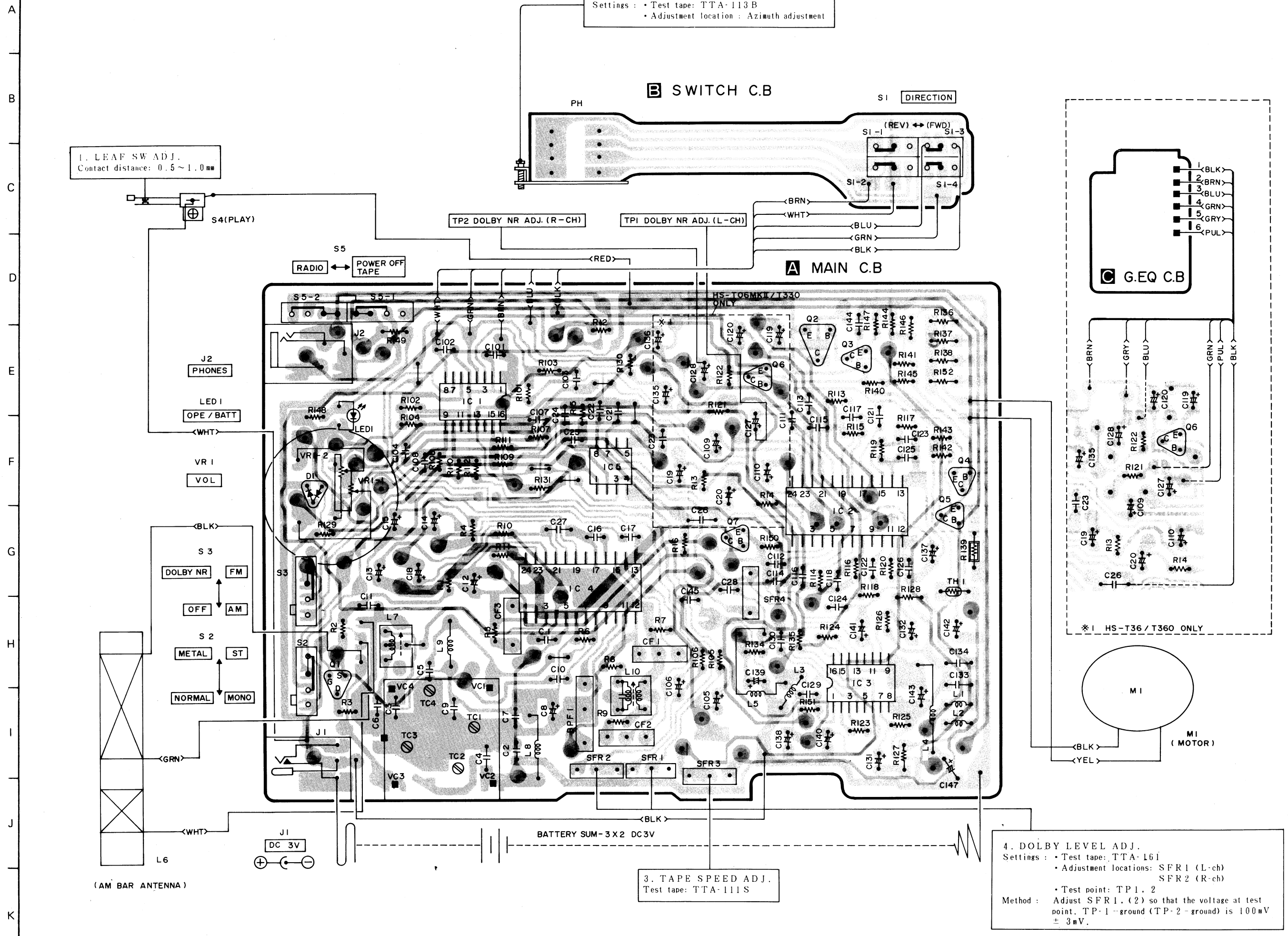
2SA1213



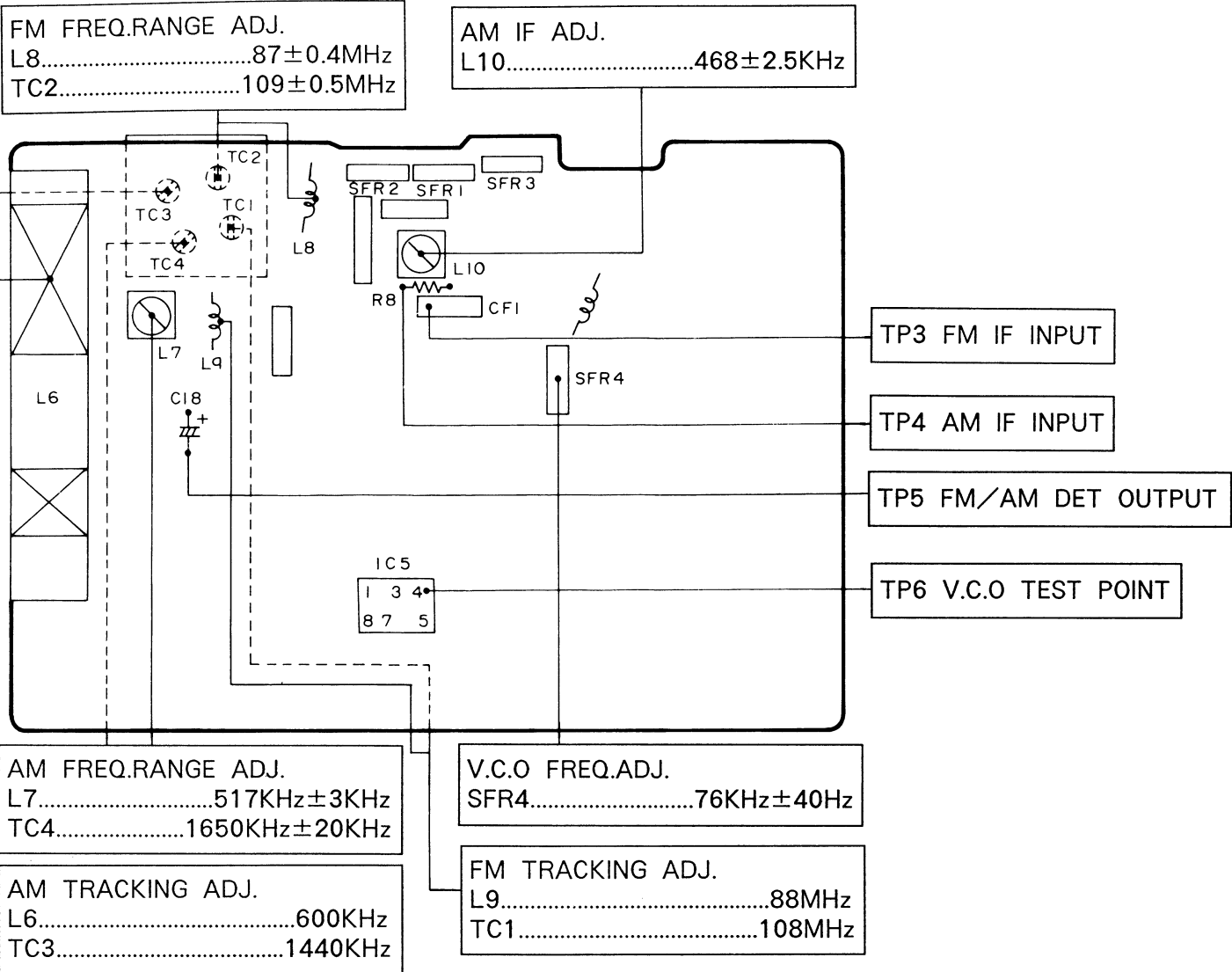
2SK211



1SS226

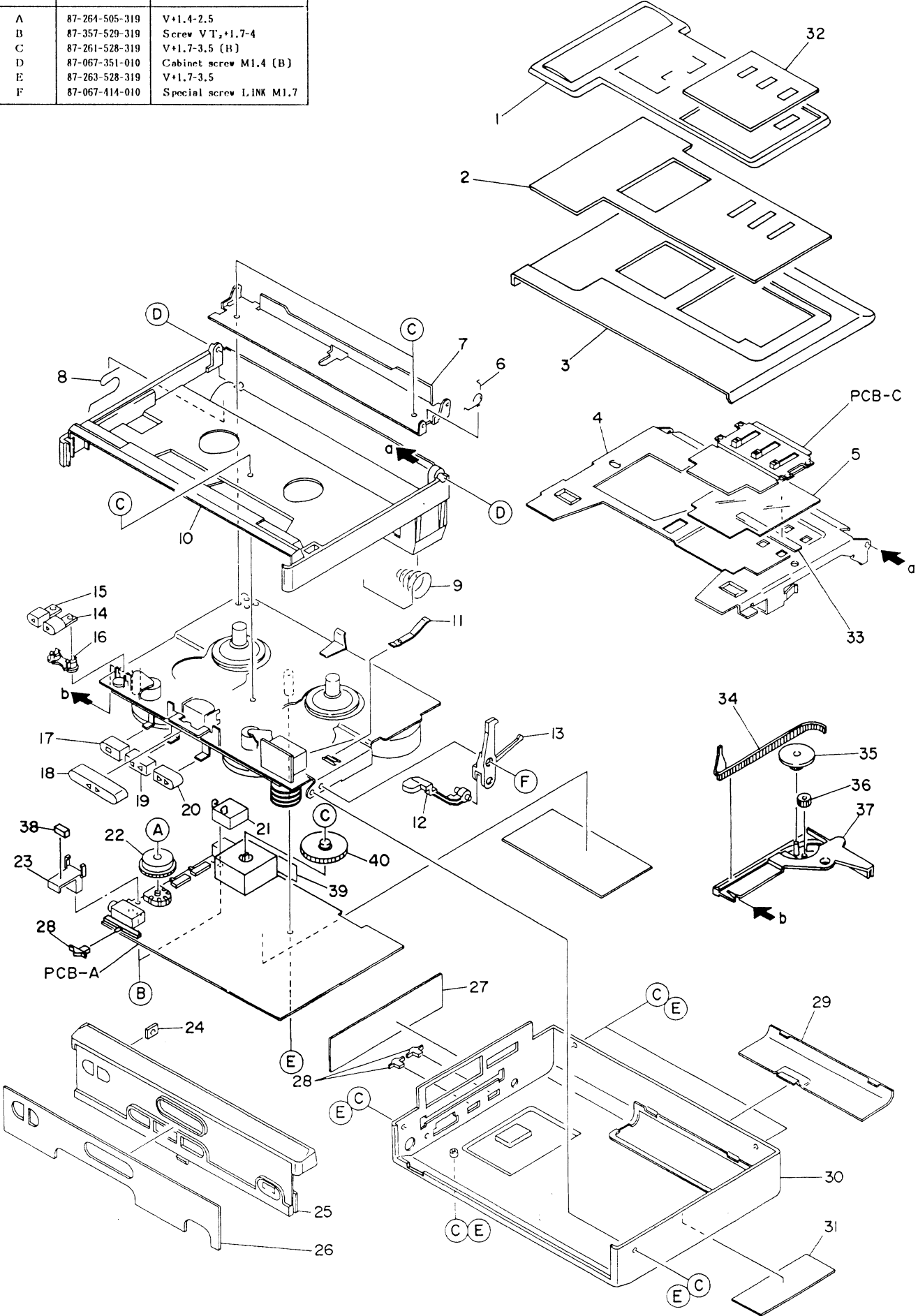


ADJUSTMENT



EXPLODED VIEW-1

REF.NO.	PART NO.	DESCRIPTION
A	87-264-505-319	V+1.4-2.5
B	87-357-529-319	Screw VT ₂ +1.7-4
C	87-261-528-319	V+1.7-3.5 (H)
D	87-067-351-010	Cabinet screw M1.4 (B)
E	87-263-528-319	V+1.7-3.5
F	87-067-414-010	Special screw LINK M1.7



PRACTICAL SERVICE FIGURE

<RADIO SECTION>

Sensitivity:
(IHF, THD 3%) FM $15\pm5\text{dB}$ (100MHz)
(S/N 10dB) AM $48\pm3\text{dB}$ (1000KHz)
Intermediate frequency: FM $10.7\pm0.1\text{MHz}$
AM $468\pm3.5\text{KHz}$

<TAPE SECTION>

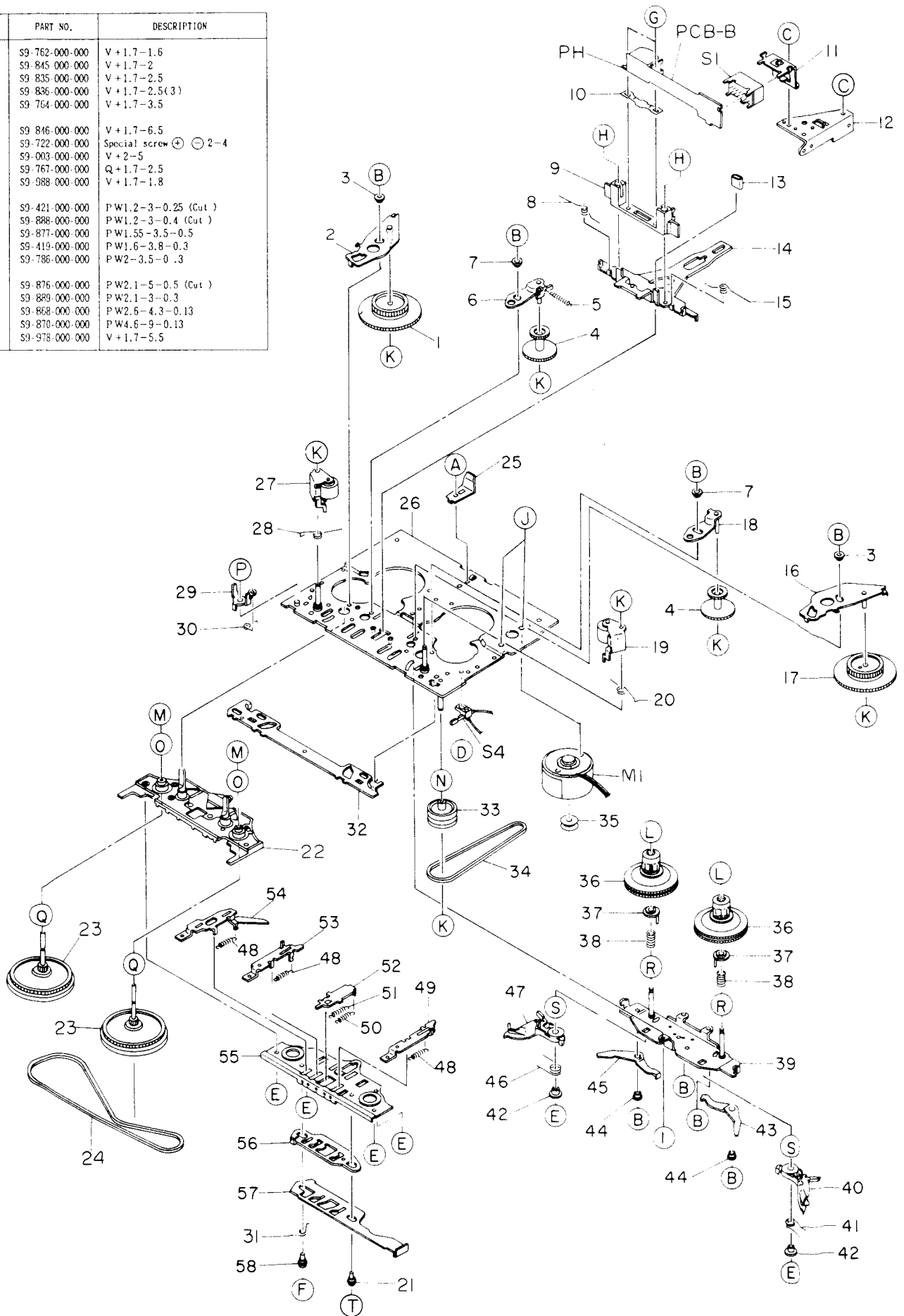
Wow & flutter: Less than 0.47% (JIS DIN RMS)
Play torque: 25~55g-cm
F.F/REW torque: 50~120g-cm
Back tension: 1.5~4.5g-cm
Signal to noise ratio: More than 44dB (DC,AC)
Distortion: Less than 2.5%
Noise: Less than 9mV
(DC,AC VOL.MAX.)
Channel balance: $0\pm4\text{dB}$

MECHANICAL PARTS LIST

PART NO. CHANGED TO	REF. NO.	PART NO.	ORDER	DESCRIPTION	COMMON MODEL	Q, TY
1-1		84-447-005-019		WINDOW, CASSETTE (HS-T36, T360)	*	1
1-1		84-447-014-019		WINDOW, CASSETTE L (HS-T06MKII, T330)	*	1
1-2		84-447-205-019		ADHESIVE, WINDOW	*	1
1-3		84-447-002-019		LID, CASSETTE Y(B)	*	1
1-3		84-447-035-019		LID, CASSETTE Y(S)	*	1
1-3		84-447-036-019		LID, CASSETTE Y(WR)	*	1
1-4		*84-447-201-010		HOLDER, CASSETTE	*	1
1-5		*84-447-204-019		MYLAR, G-EQ (HS-T36, T360)	*	1
1-6		*84-400-217-019		T-SPRING, CLICK	HS-T06	1
1-7		*84-447-202-019		HOLDER, FRAME	*	1
1-8		*84-447-210-010		BATTERY TERMINAL PL	*	1
1-9		*84-400-216-119		BATTERY TERMINAL (-)	HS-T06	1
1-10		*84-447-004-019		FRAME, CASSETTE (B)	*	1
1-10		*84-447-037-019		FRAME, CASSETTE (S, WR)	*	1
1-11		*84-400-204-110		P-SPRING, UP	HS-T06	1
1-12		*84-447-012-019		PUSH-BUTTON, OPEN	*	1
1-13		*84-447-206-019		LEVER, LOCK	*	1
1-14		*84-447-011-019		PUSH-BUTTON, FWD	*	1
1-15		*84-447-010-019		PUSH-BUTTON, REV	*	1
1-16		*84-447-203-019		COLLAR, DIRECTION	*	1
1-17		*84-447-009-019		PUSH-BUTTON, STOP	*	1
1-18		*84-447-006-019		PUSH-BUTTON, PLAY	*	1
1-19		*84-447-008-019		PUSH-BUTTON, REW	*	1
1-20		*84-447-007-019		PUSH-BUTTON, FF	*	1
1-21		---		HOLDER, ANT D		1
1-22		*82-690-012-110		KNOB, VOLUME		1
1-23		---		HOLDER, ANT C		1
1-24		*84-400-206-019		PLATE, NUT	HS-T06	1
1-25		*84-447-003-019		PANEL, CONTROL	*	1
1-26		*84-447-016-010		NAME PLATE, CONTROL Y	*	1
1-27		*84-447-015-010		NAME PLATE, SIDE Y	*	1
1-28		84-447-013-019		KNOB, SLIDE A	*	3
1-29		84-447-023-019		LID, BATTERY (B)	*	1
1-29		84-447-024-019		LID, BATTERY (S)	*	1
1-29		84-447-025-019		LID, BATTERY (WR)	*	1
1-30		*84-447-001-019		CABINET, REAR (B)	*	1
1-30		*84-447-027-019		CABINET, REAR (S)	*	1
1-30		*84-447-028-019		CABINET, REAR (WR)	*	1
1-31		---		LABEL, SPEC		1
1-32		*84-447-017-019		PLATE, G-EQ Y (HS-T36)	*	1
1-32		*84-447-022-019		PLATE, G-EQ YU (HS-T360)	*	1
1-32		*84-447-020-019		PLATE, WINDOW (HS-T06MKII)	*	1
1-32		*84-447-021-019		PLATE, WINDOW YU (HS-T330)	*	1
1-33		*84-447-211-010		CUSHION, G-EQ (HS-T36, T360)	*	1
1-34		*84-447-018-019		POINTER	*	1
1-35		*84-400-017-019		KNOB, TU	HS-T06	1
1-36		84-400-212-119		GEAR, PINION	HS-T06	1
1-37		*84-447-207-019		FRAME, TU	*	1
1-38		*82-690-237-019		G CUSHION 5-3-2		1
1-39		---		PVC SHIELD SHEET		1
1-40		84-400-211-019		GEAR, VC		1

EXPLODED VIEW-2

REF. NO.	PART NO.	DESCRIPTION
A	S9-762-000-000	V+1.7-1.6
B	S9-845-000-000	V+1.7-2
C	S9-835-000-000	V+1.7-2.5
D	S9-836-000-000	V+1.7-2.5(3)
E	S9-764-000-000	V+1.7-3.5
F	S9-816-000-000	V+1.7-6.5
G	S9-722-000-000	Special screw ⊕ ⊖ 2-4
H	S9-003-000-000	V+2-5
I	S9-767-000-000	Q+1.7-2.5
J	S9-988-000-000	V+1.7-1.8
K	S9-421-000-000	PW1.2-3-0.25 (Cut)
L	S9-888-000-000	PW1.2-3-0.4 (Cut)
M	S9-877-000-000	PW1.55-3.5-0.5
N	S9-419-000-000	PW1.6-3.8-0.3
O	S9-786-000-000	PW2-3.5-0.3
P	S9-876-000-000	PW2.1-5-0.5 (Cut)
Q	S9-889-000-000	PW2.1-3-0.3
R	S9-868-000-000	PW2.6-4.3-0.13
S	S9-870-000-000	PW4.6-9-0.13
T	S9-978-000-000	V+1.7-5.5



PART NO. CHANGED TO	REF. NO.	PART NO.	ORDER	DESCRIPTION	COMMON MODEL	Q'TY
	2-1	S1-852-060-030		GEAR, T. CAM (R)		1
	2-2	S1-852-063-010		T. GEAR ARM R ASSY		1
	2-3	★S1-852-050-060		COLLAR, T. ARM		2
	2-4	S1-852-070-030		GEAR FF		2
	2-5	★S1-852-070-040		SPRING, FF GEAR ARM		1
	2-6	★S1-852-083-010		FF GEAR ARM R ASSY		1
	2-7	★S1-852-050-040		COLLAR, ARM		2
	2-8	★S1-852-040-050		SPRING, PINCH ROLLER R		1
	2-9	★S1-852-040-020		GUIDE, TAPE		1
	2-10	★S1-852-040-030		SPRING, HEAD PLATE		1
	2-11	---		BRACKET, SW		1
	2-12	---		BOARD, BRACKET		1
	2-13	---		UL TUBE		1
	2-14	★S1-852-040-010		PANEL, HEAD		1
	2-15	★S1-852-040-040		SPRING, PINCH ROLLER F		1
	2-16	★S1-852-053-010		T. GEAR ARM F ASSY		1
	2-17	S1-852-050-030		GEAR, T. CAM F		1
	2-18	★S1-852-073-010		FF GEAR ARM F ASSY		1
	2-19	S1-852-095-010		PINCH ROLLER ARM F ASSY		1
	2-20	★S1-852-050-050		SPRING, T. GEAR ARM F		1
	2-21	★S1-852-022-900		COLLAR, ACTUATING F		1
	2-22	★S1-852-022-000		BUTTON BASE ASSY		1
	2-23	★S1-852-125-010		FLYWHEEL ASSY		2
	2-24	S1-852-140-100		BELT (FL) A		1
	2-25	★S1-852-150-030		SPRING PLATE, PACK BEARING A		1
	2-26	---		CHASSIS ASSY		1
	2-27	S1-852-105-010		PINCH ROLLER ARM R ASSY		1
	2-28	★S1-852-060-020		SPRING, T. GEAR ARM R		1
	2-29	★S1-852-030-020		REVERSE ARM		1
	2-30	★S1-852-030-030		SPRING, REVERSE		1
	2-31	★S1-852-020-150		SPRING, ACTUATING PLATE		1
	2-32	★S1-852-030-010		PLATE, SLIDE		1
	2-33	S1-852-130-020		CENTER PULLEY A		1
	2-34	S1-852-140-050		BELT M		1
	2-35	S1-852-140-010		M PULLEY		1
	2-36	S1-852-114-030		REEL PLATFORM ASSY A		2
	2-37	★S1-852-110-270		DETECTION PLATE A		2
	2-38	★S1-852-110-290		SPRING, B. T. A		2
	2-39	★S1-852-113-060		REEL PLATE ASSY		1
	2-40	★S1-852-110-140		LEVER, AUTO F		1
	2-41	★S1-852-110-150		SPRING, AUTO LEVER F		1
	2-42	★S1-852-110-160		COLLAR, AUTO LEVER		2
	2-43	★S1-852-110-190		ARM, AUTO CONTROL F		1
	2-44	★S1-852-110-260		COLLAR, AUTO CONTROL		2
	2-45	★S1-852-110-210		ARM, AUTO CONTROL R		1
	2-46	★S1-852-110-180		SPRING, AUTO LEVER R		1
	2-47	★S1-852-110-170		LEVER, AUTO R		1
	2-48	★S1-852-020-120		SPRING, LEVER		3
	2-49	★S1-852-020-040		FF LEVER F		1
	2-50	★S1-852-020-140		SPRING, RC		1
	2-51	★S1-852-020-130		SPRING, HP		1
	2-52	★S1-852-020-030		PLATE, HP		1
	2-53	★S1-852-020-050		FF LEVER R		1
	2-54	★S1-852-020-060		LEVER, STOP		1
	2-55	★S1-852-020-070		HOLD PLATE		1
	2-56	★S1-852-020-170		LOCK ACTUATING PLATE		1
	2-57	★S1-852-020-090		ACTUATING PLATE, SWITCH		1
	2-58	★S1-852-020-100		COLLAR, ACTUATING PLATE		1

Note

When placing an order for service parts, always enter the parts code number up to the last numeral on the service parts ordering sheet.